

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	9	((F) near2 (THIGPEN)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 16:20
S2	99	(("20040109575") or ("4502149") or ("4521906") or ("5784468") or ("5287413") or ("4876723") or ("4933987") or ("4347911") or ("4588868") or ("5512714") or ("5629501") or ("5635686") or ("6038330") or ("4308424") or ("6016473") or ("6026927") or ("6075868") or ("4888804") or ("5553148") or ("5581626") or ("5708719") or ("4267405") or ("4934998") or ("5617477") or ("5664022") or ("5680465") or ("5682434") or ("5687245") or ("5796854") or ("5815579") or ("5930376") or ("5930370") or ("5953434") or ("6091832") or ("6118876") or ("6201874") or ("6301367") or ("6304434") or ("20070211574") or ("4594729") or ("4324951") or ("4866776") or ("5557683") or ("4490842") or ("4597470") or ("5008944") or ("5750942") or ("20020031231") or ("20040136551") or ("20050129265")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/09/17 15:04

## EAST Search History

S3	104	((("20040109575") or ("4521906") or ("4502149") or ("5287413") or ("4876723") or ("4347911") or ("4588868") or ("4306121") or ("5850453") or ("20050259831") or ("4594729") or ("4866776") or ("5784468") or ("6038330") or ("4308424") or ("5371799") or ("5557683") or ("5784477") or ("5870484") or ("6016473") or ("4490842") or ("4597470") or ("5008944") or ("5459702") or ("5750942") or ("5862235") or ("6111964") or ("6181796") or ("6584202") or ("20020031231") or ("20030063756") or ("20040131192") or ("20040136551") or ("20050129265") or ("20050135636") or ("20060029242") or ("6002944") or ("4324951") or ("4933987") or ("5287412") or ("5574426") or ("5512714") or ("5629501") or ("5635686") or ("7106180") or ("7266204") or ("20040246607") or ("20050100174") or ("4443790") or ("6097285")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/09/17 16:02
S4	944	((381/86).ccls.).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/09/24 10:54
S5	37249	((381/302or381/160or381/408-409).ccls.).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/09/24 10:55
S6	1158	((381/302 or 381/160 or 381/408-409).ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 10:55
S7	1003	((381/365 or 381/431 or 381/332-333).ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 10:56

## EAST Search History

S8	137227	(acute adj angle) or (acute adj angul\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:02
S9	12079	planar and \$4speaker\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 10:58
S10	4	S4 and S8 and @ay<="2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:03
S11	130	S5 and S8 and @ay<="2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:01
S12	11	S6 and S8 and @ay<="2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:01
S13	14	S7 and S8 and @ay<="2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:01
S14	3464086	( angle) or ( angul\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:03
S15	6454	S14 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:03
S16	13	S4 and S15 and @ay<="2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:04
S17	460	S5 and S15 and @ay<="2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:09

## EAST Search History

S18	1158	((381/302 or 381/160 or 381/408-409).ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:09
S19	12079	planar and \$4speaker\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:09
S20	3464086	( angle) or ( angul\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:09
S21	6454	S20 and S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:09
S22	74	S18 and S21 and @ay<="2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:11
S23	1003	((381/365 or 381/431 or 381/332-333).ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:11
S24	12079	planar and \$4speaker\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:11
S25	3464086	( angle) or ( angul\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:11
S26	6454	S25 and S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:11
S27	92	S23 and S26 and @ay<="2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/09/24 11:11

## EAST Search History

S28	2	("6782109").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/09/24 16:20
S29	11	("2438926"   "4242541"   "4268725"   "4533795"   "5119427"   "5251264"   "5668744"   "6088463").PN. OR ("6782109"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/24 16:20